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5	6	7	8
16	1	2	9
15	4	3	10
14	13	12	11

FIG.1a

A	5	6	7	8	B
	16	1	2	9	
C	15	4	3	10	D
	14	13	12	11	

FIG.1b

1	2
3	4

FIG.2a

INPUT	OUTPUT
0.0-0.5	0
0.5-1.5	1
1.5-2.5	2
2.5-3.5	3
3.5-4.0	4

FIG.2b

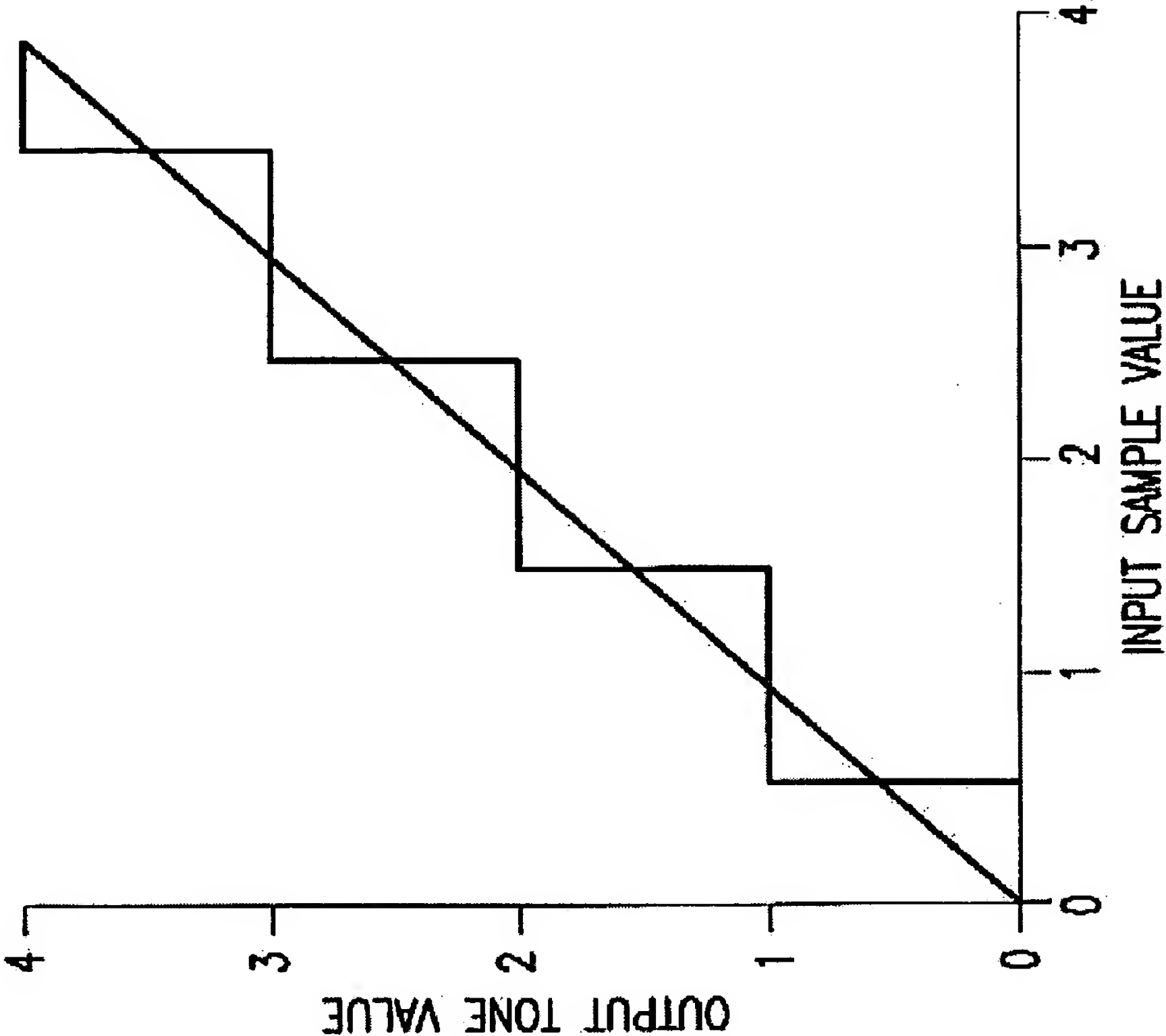


FIG.2c

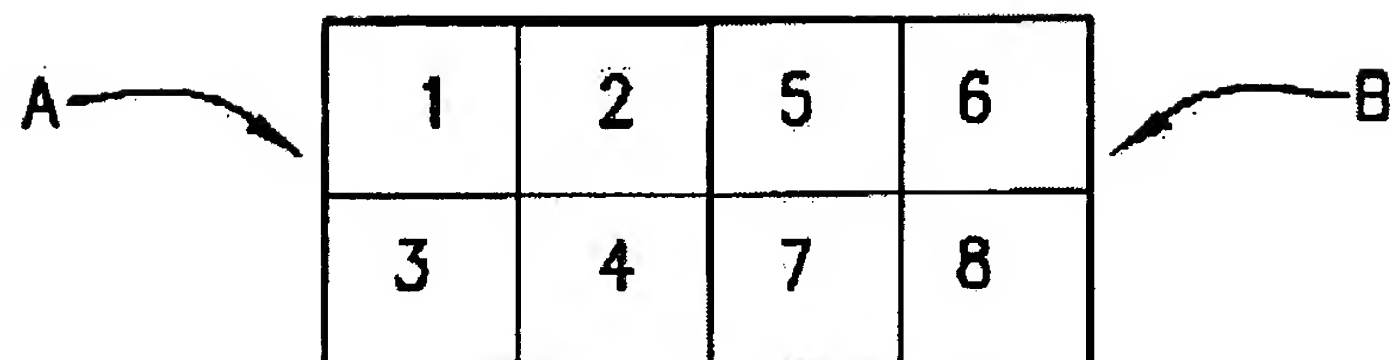


FIG.2d

INPUT	OUTPUT
0.0-0.5	0
0.5-1.5	1
1.5-2.5	2
2.5-3.5	3
3.5-4.5	4
4.5-5.5	4
5.5-6.5	4
6.5-7.5	4
7.5-8.0	4

FIG.2e

INPUT	OUTPUT
0.0-0.5	0
0.5-1.5	0
1.5-2.5	0
2.5-3.5	0
3.5-4.5	0
4.5-5.5	1
5.5-6.5	2
6.5-7.5	3
7.5-8.0	4

FIG.2f

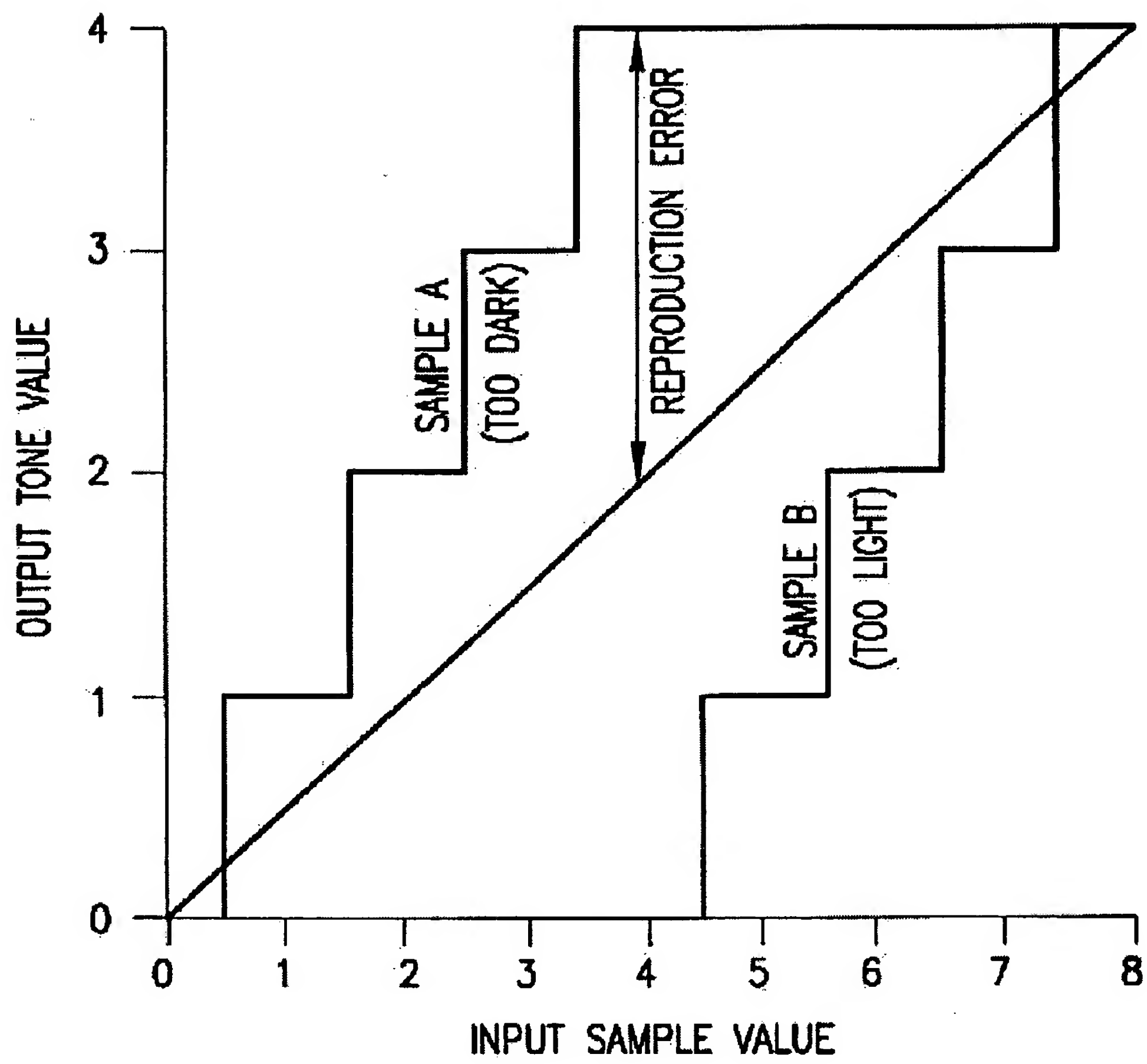


FIG.2g

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PROBLEMATIC HALTONE PATTERN

	13	7	8	14	20	26	25	19	
A	5	1	2	6	28	32	31	27	B
	9	3	4	10	24	30	29	23	
	15	11	12	16	18	22	21	17	
	20	26	25	19	13	7	8	14	
C	28	32	31	27	5	1	2	6	D
	24	30	29	23	9	3	4	10	
	18	22	21	17	15	11	12	16	

FIG.3a

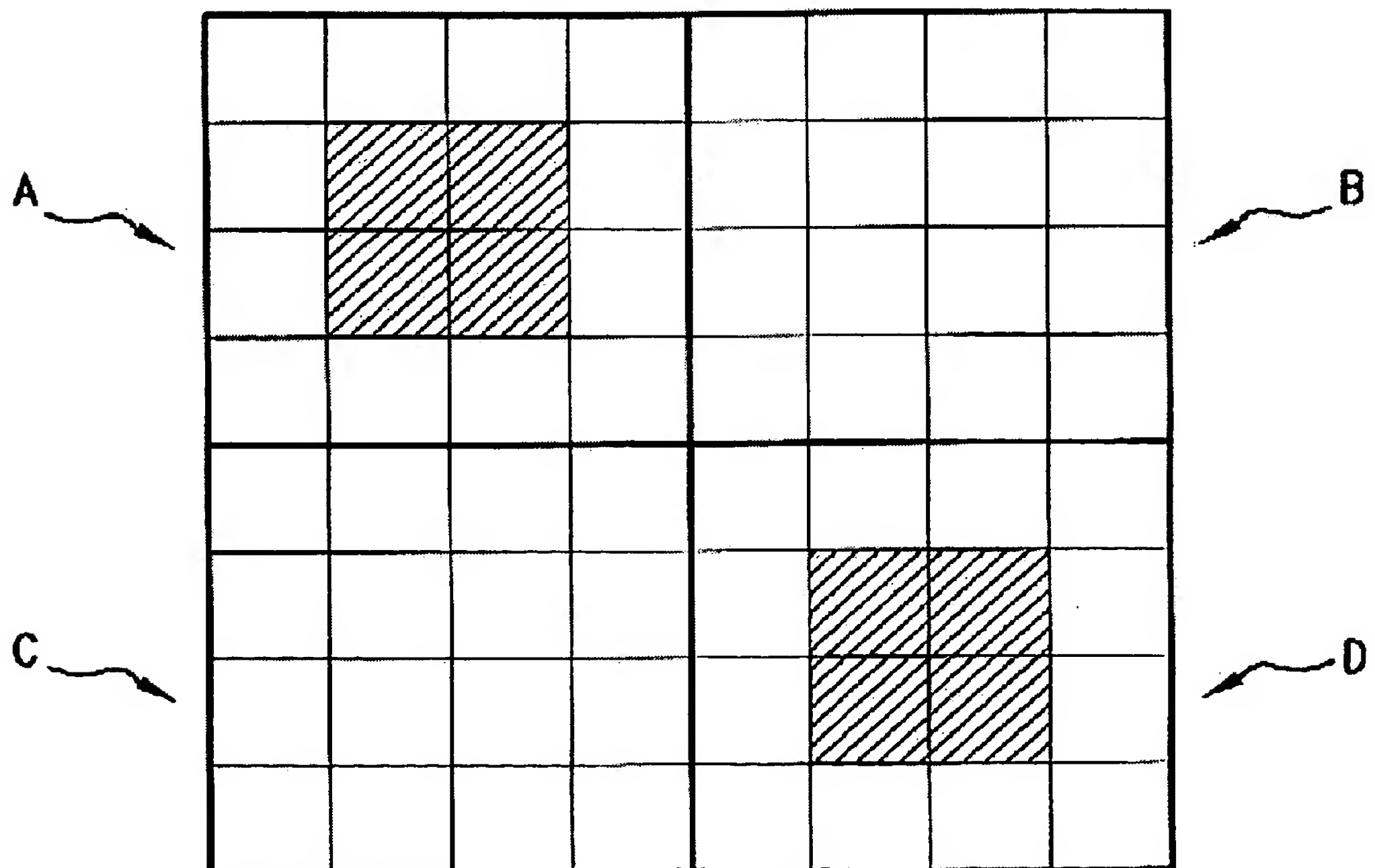


FIG.3b

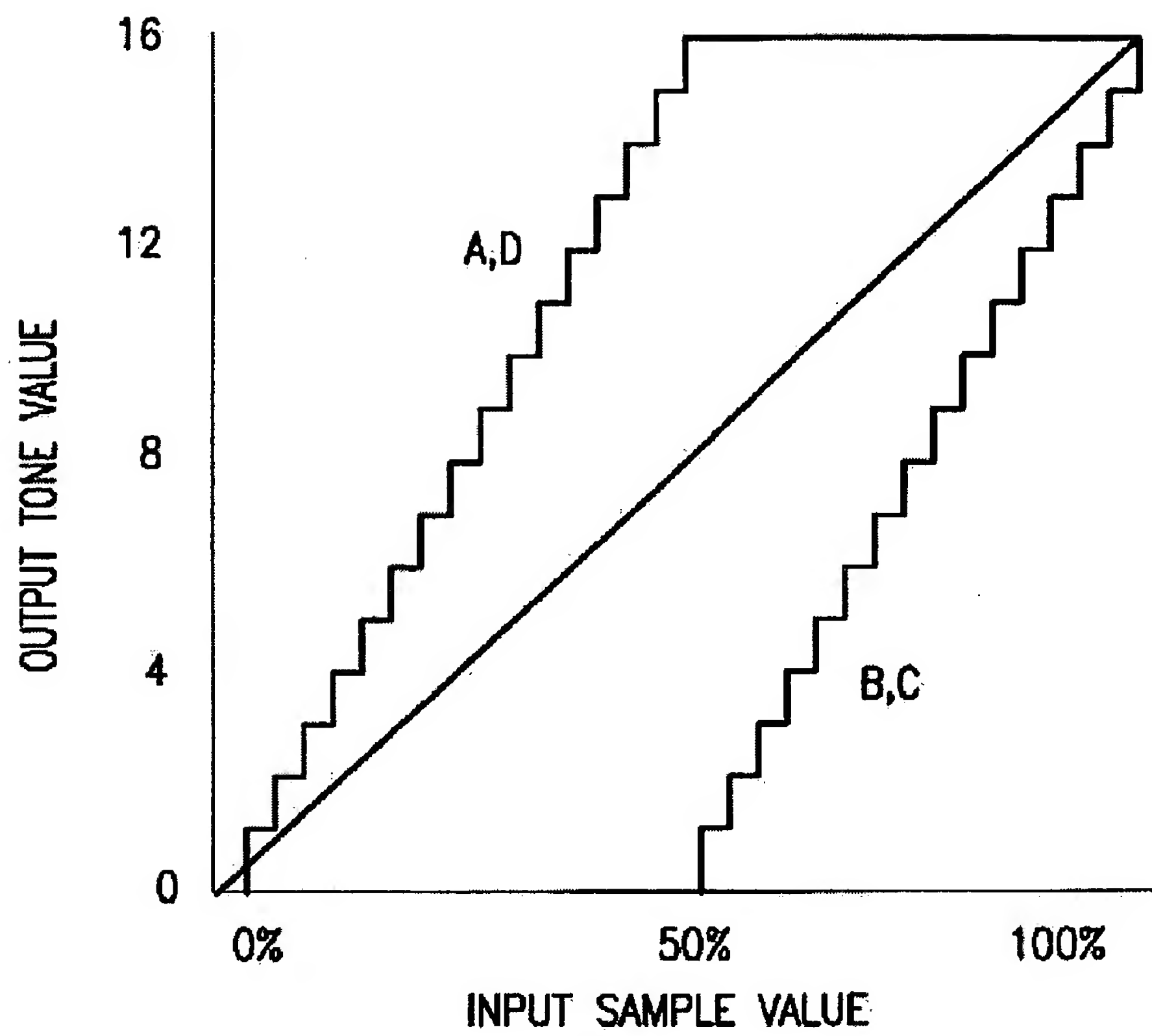


FIG.3c

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DIRECT 1 TO 1 PATTERN

A	13	7	8	14	13	7	8	14	B
	5	1	2	6	5	1	2	6	
	9	3	4	10	9	3	4	10	
	15	11	12	16	15	11	12	16	
C	13	7	8	14	13	7	8	14	D
	5	1	2	6	5	1	2	6	
	9	3	4	10	9	3	4	10	
	15	11	12	16	15	11	12	16	

FIG.4a

A								B
C								D

FIG.4b

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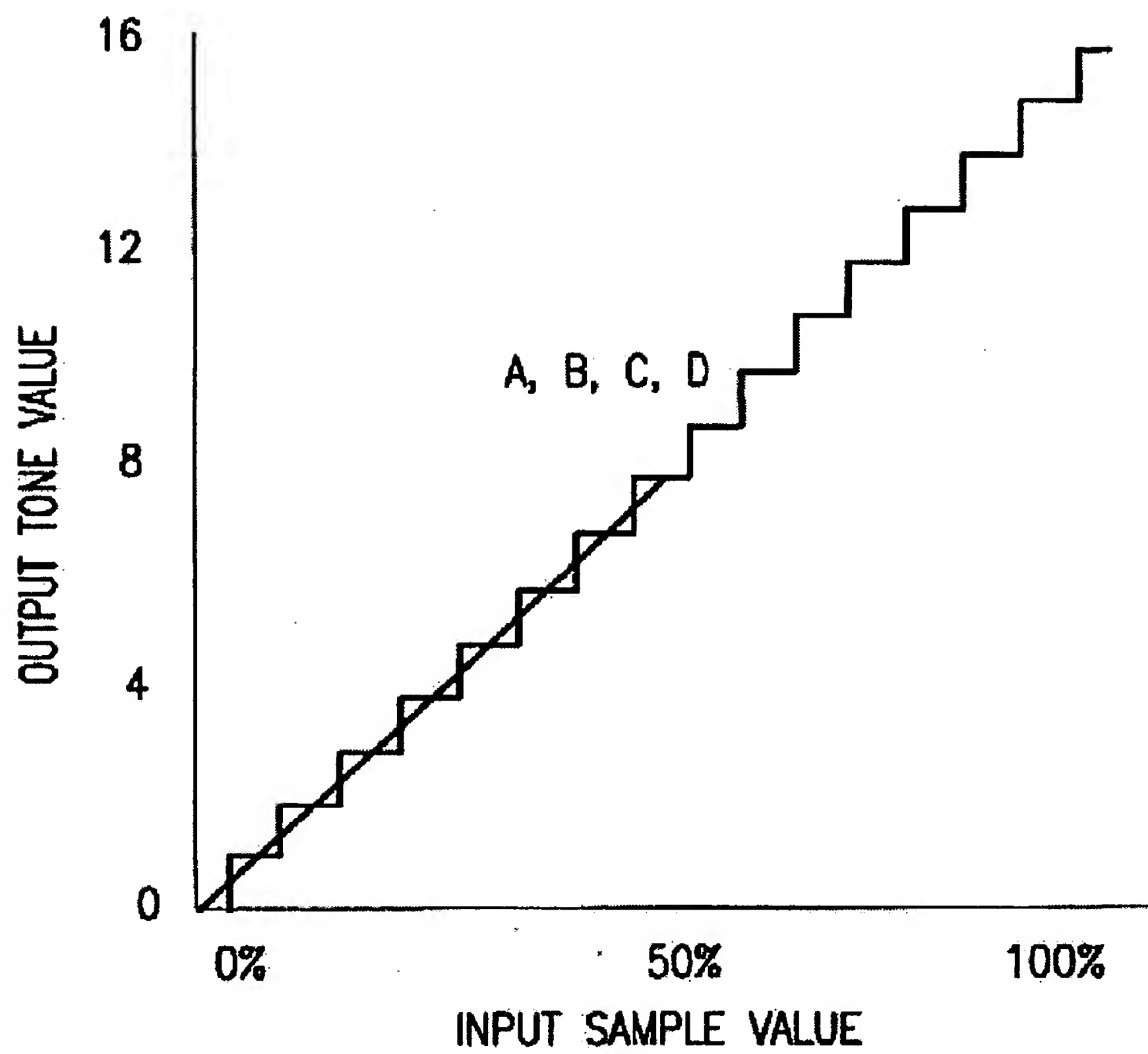


FIG.4c



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REDUCED FREQUENCY 1 TO 1 PATTERN

A	13	10	7	4	4	7	10	13	B
	16	14	3	1	1	3	14	16	
	15	12	5	2	2	5	12	15	
	11	9	8	6	6	8	9	11	
C	4	7	10	13	13	10	7	4	D
	1	3	14	16	16	14	3	1	
	2	5	12	15	15	12	5	2	
	6	8	9	11	11	9	8	6	

FIG.5a

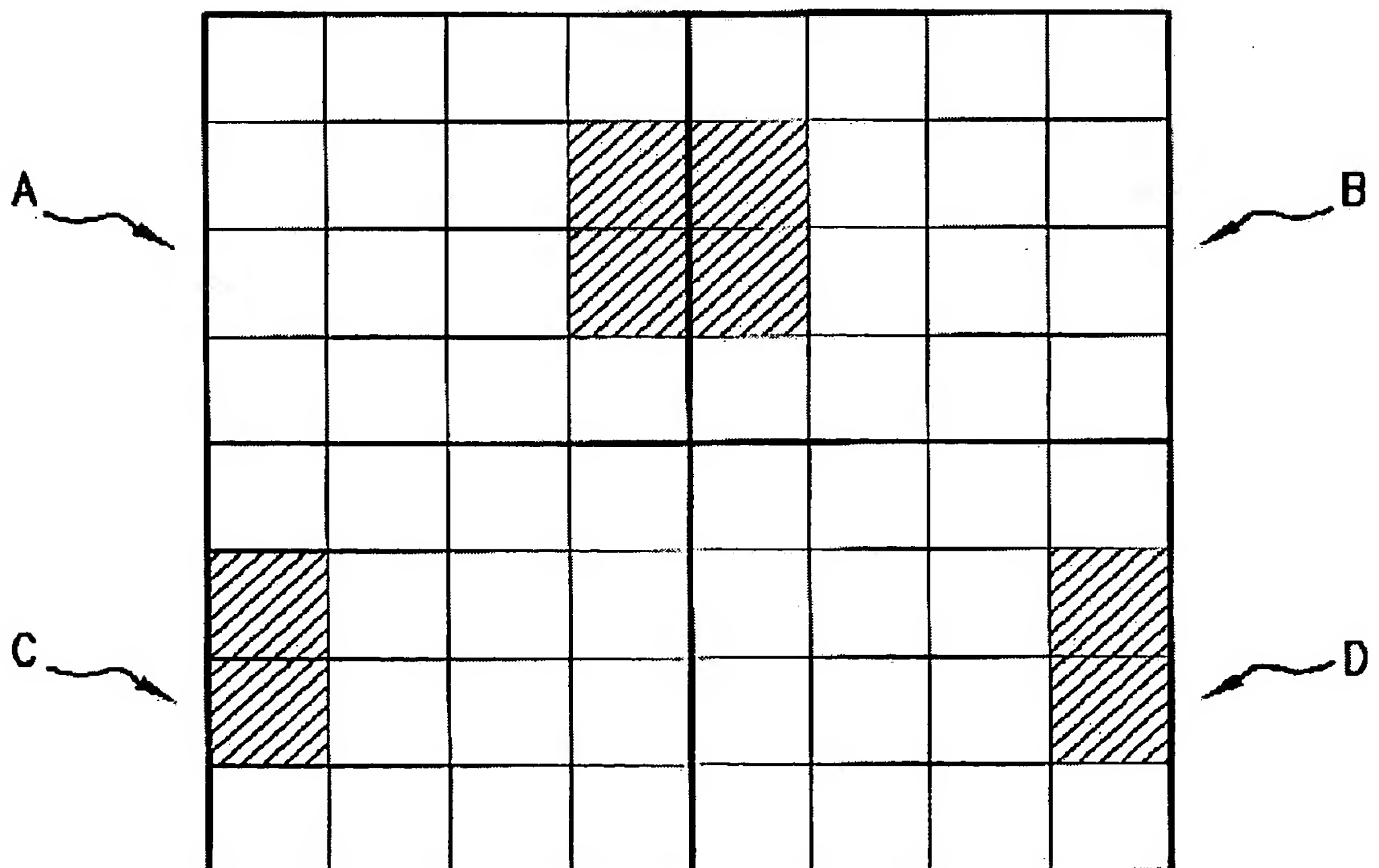


FIG.5b

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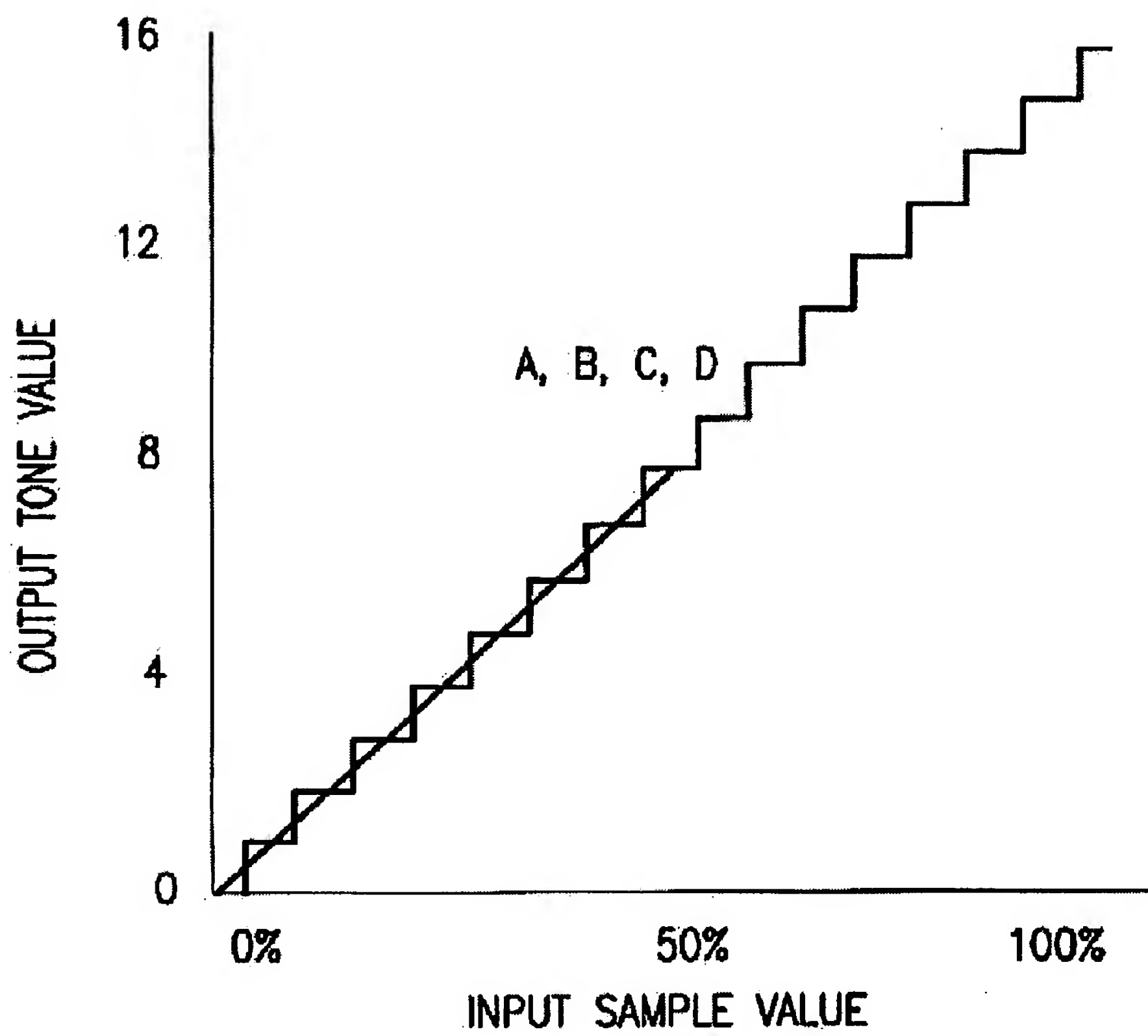


FIG.5c

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DISPERSED 1 TO 1 PATTERN

	25	19	13	7	8	14	20	26	
A	31	27	5	1	2	6	28	32	B
	29	23	9	3	4	10	24	30	
	21	17	15	11	12	16	18	22	
	8	14	20	26	25	19	13	7	
C	2	6	28	32	31	27	5	1	D
	4	10	24	30	29	23	9	3	
	12	16	18	22	21	17	15	11	

FIG.6a

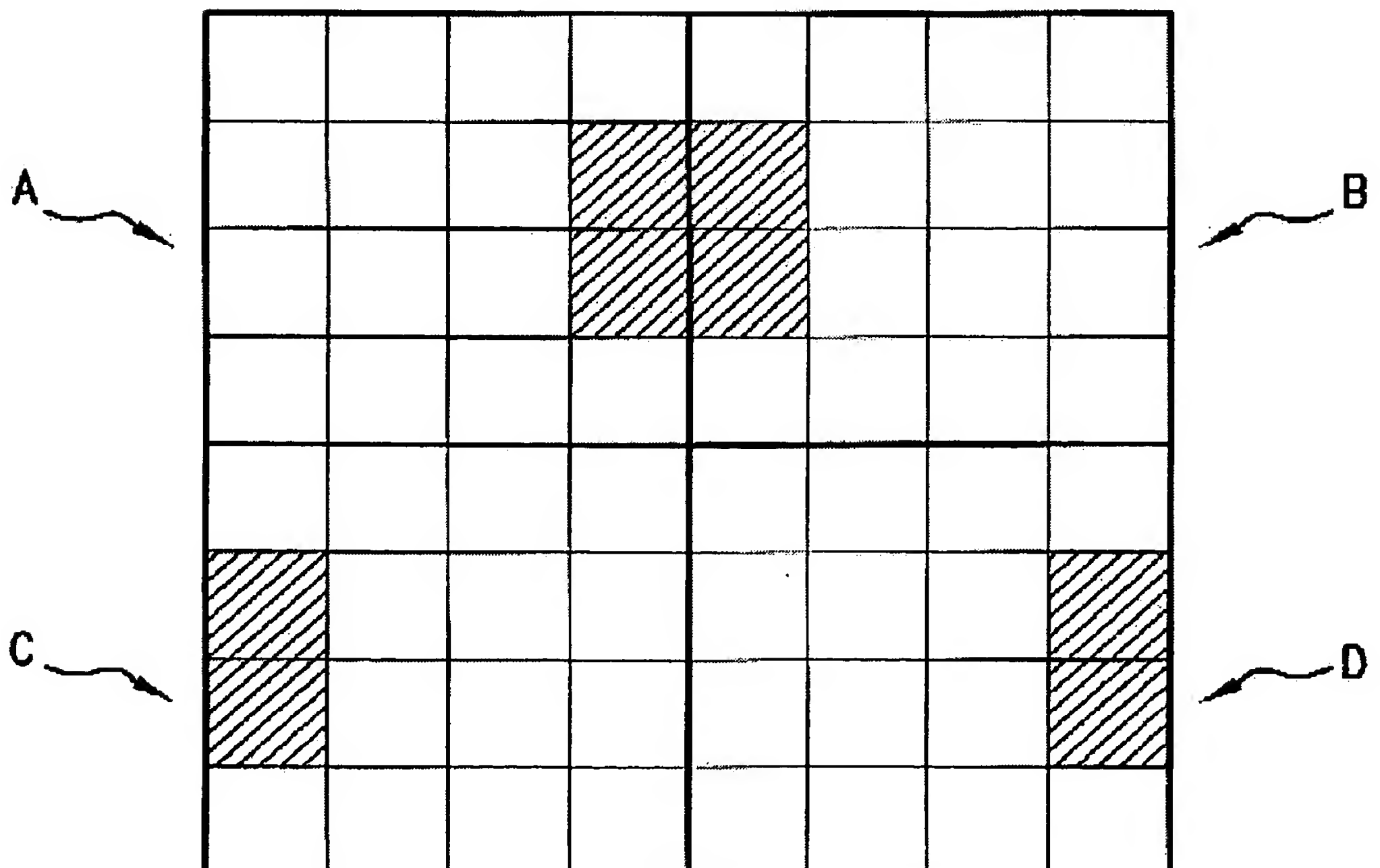


FIG.6b

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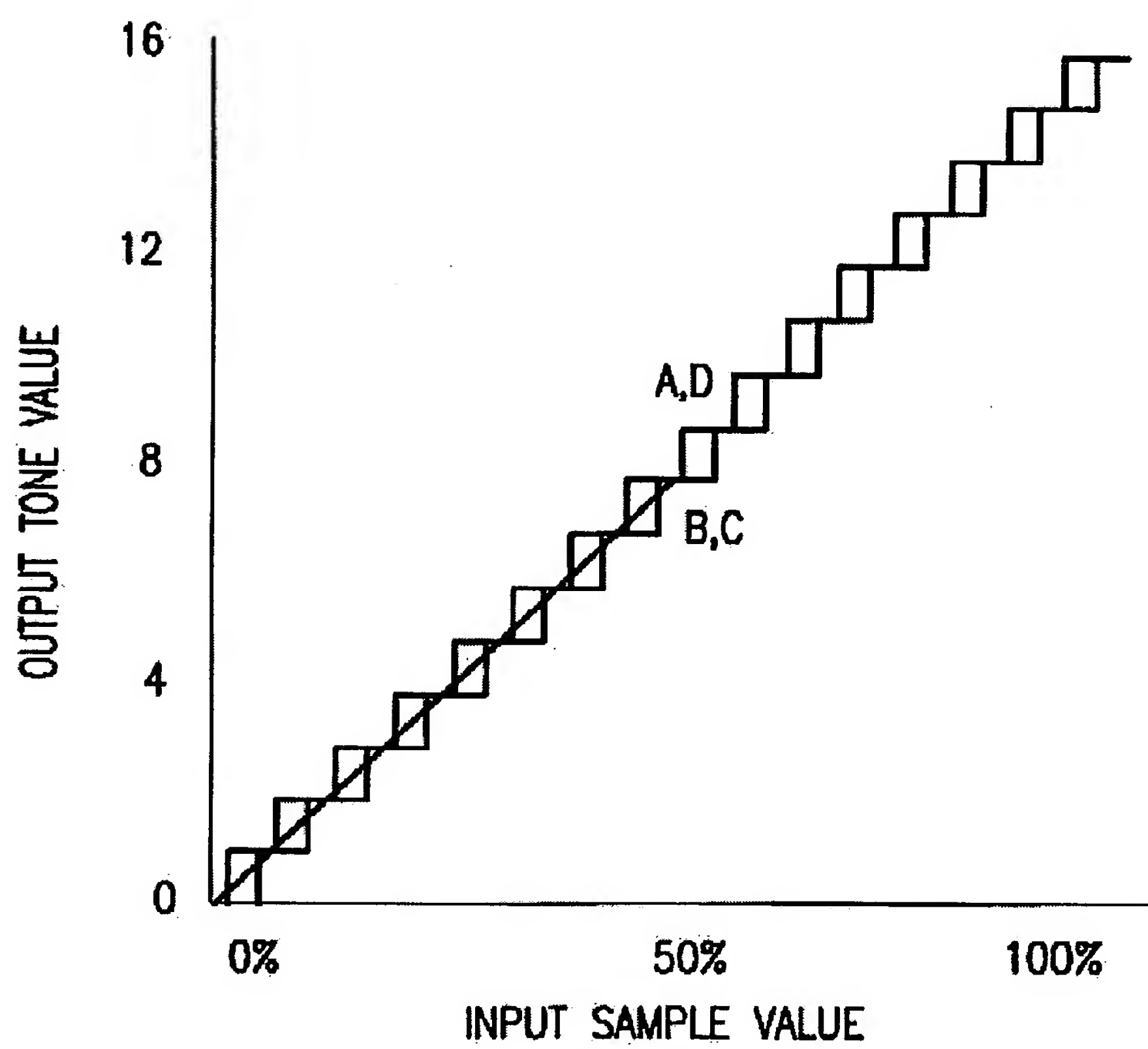




FIG.6c

SYSTEMATIC PATTERN GENERATION— SPOT VALUES

A 


3.8	2.9	2.1	1.6	1.6	2.1	2.9	3.8
3.5	2.5	1.6	0.7	0.7	1.6	2.5	3.5
3.5	2.5	1.6	0.7	0.7	1.6	2.5	3.5
3.8	2.9	2.1	1.6	1.6	2.1	2.9	3.8

 B

$$\text{SPOT} (x, y) = \text{sqrt} (x * x + y * y)$$

FIG.7a

— ORDERED VALUES

A 

29	21	13	5	6	14	22	30
25	17	7	1	2	8	18	26
27	19	9	3	4	10	20	28
31	23	15	11	12	16	24	32



 B


FIG.7b


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— ADD BOTTOM HALF

A 

29	21	13	5	6	14	22	30
25	17	7	1	2	8	18	26
27	19	9	3	4	10	20	28
31	23	15	11	12	16	24	32
6	14	22	30	29	21	13	5
2	8	18	26	25	17	7	1
4	10	20	28	27	19	9	3
12	16	24	32	31	23	15	11

 B

C 


 D

FIG.7c

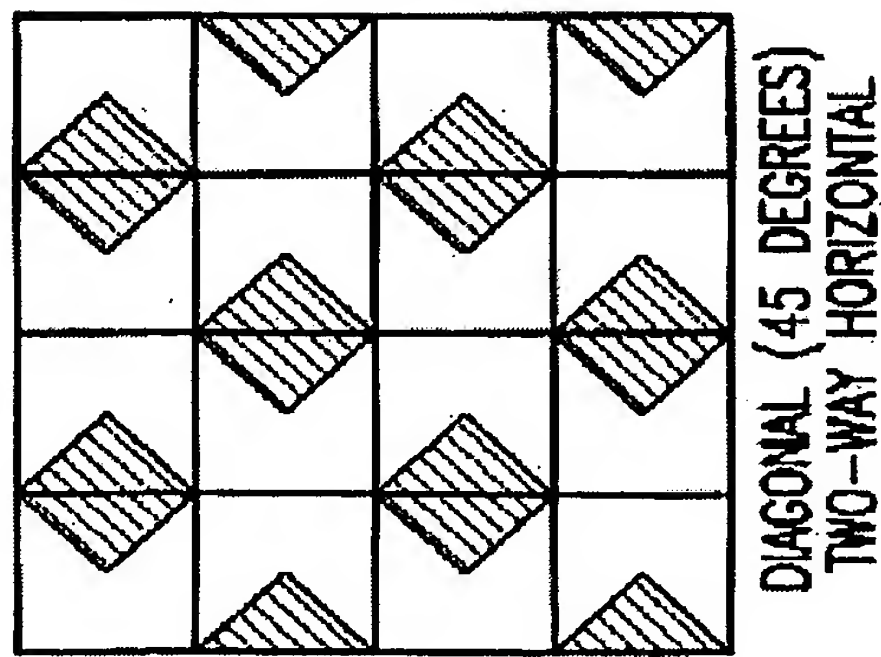


FIG. 8a

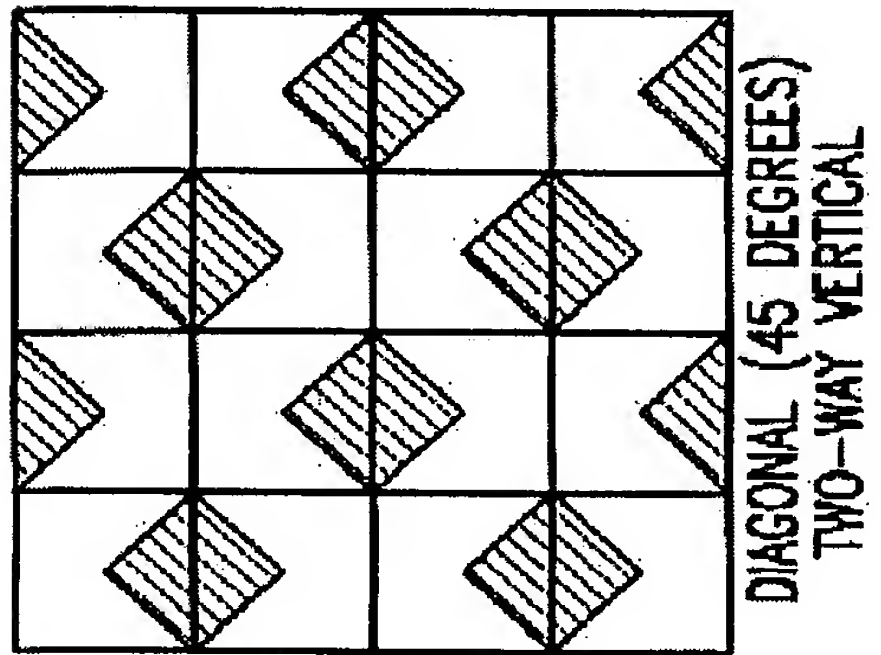


FIG. 8b

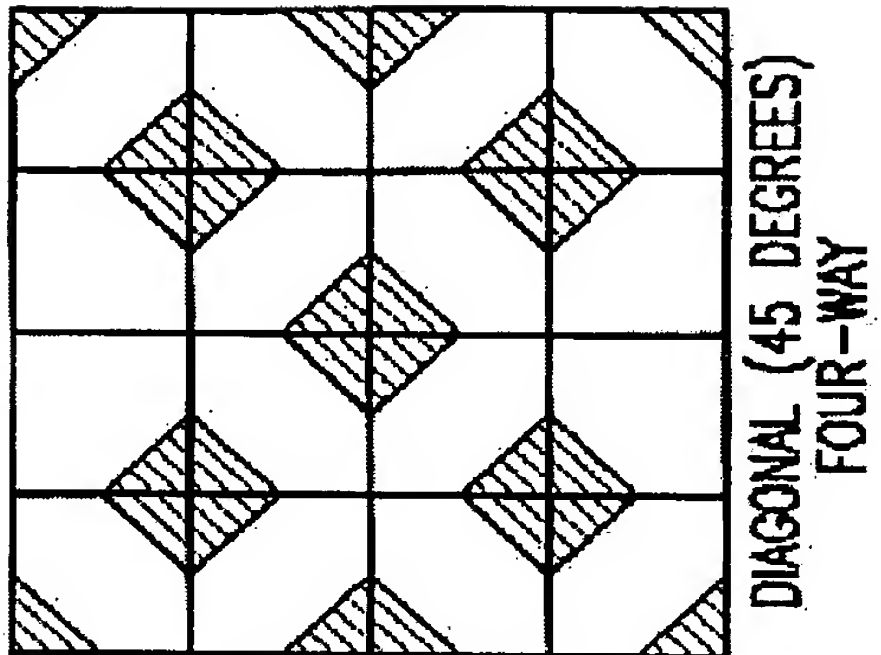


FIG. 8c

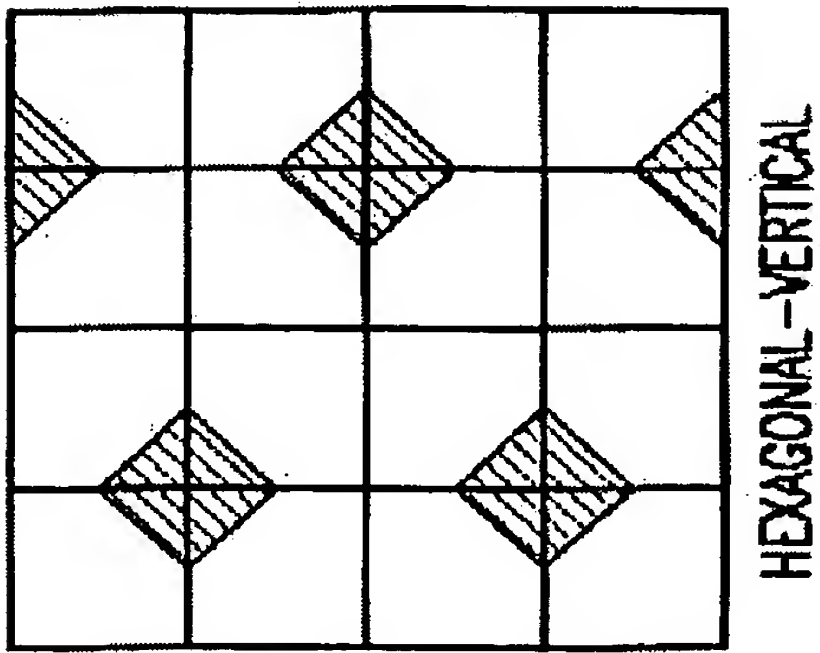


FIG. 8d

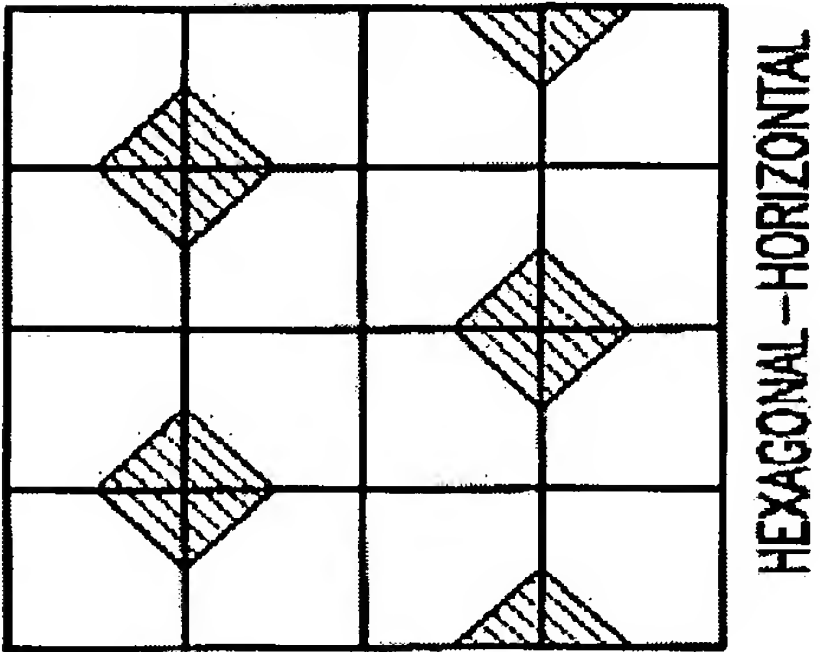


FIG. 8e

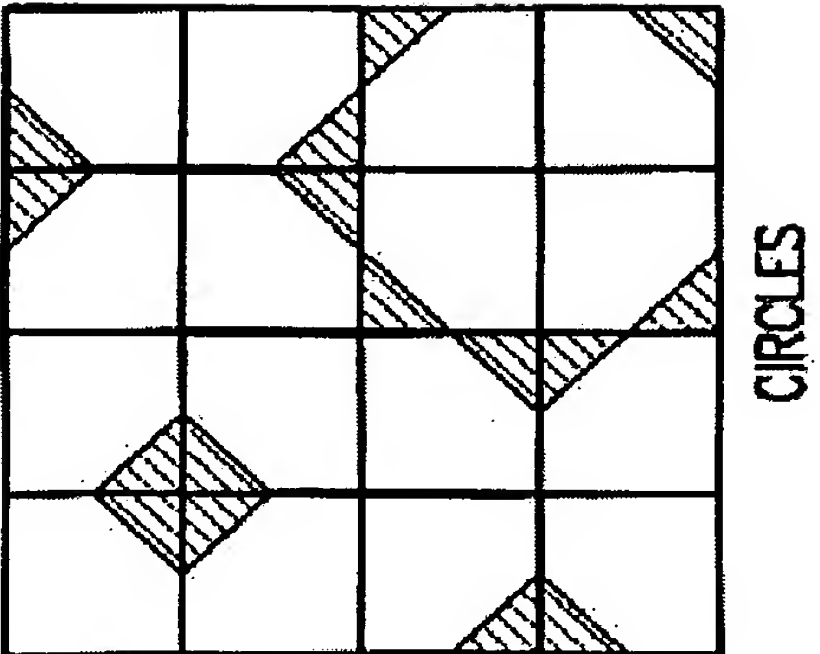
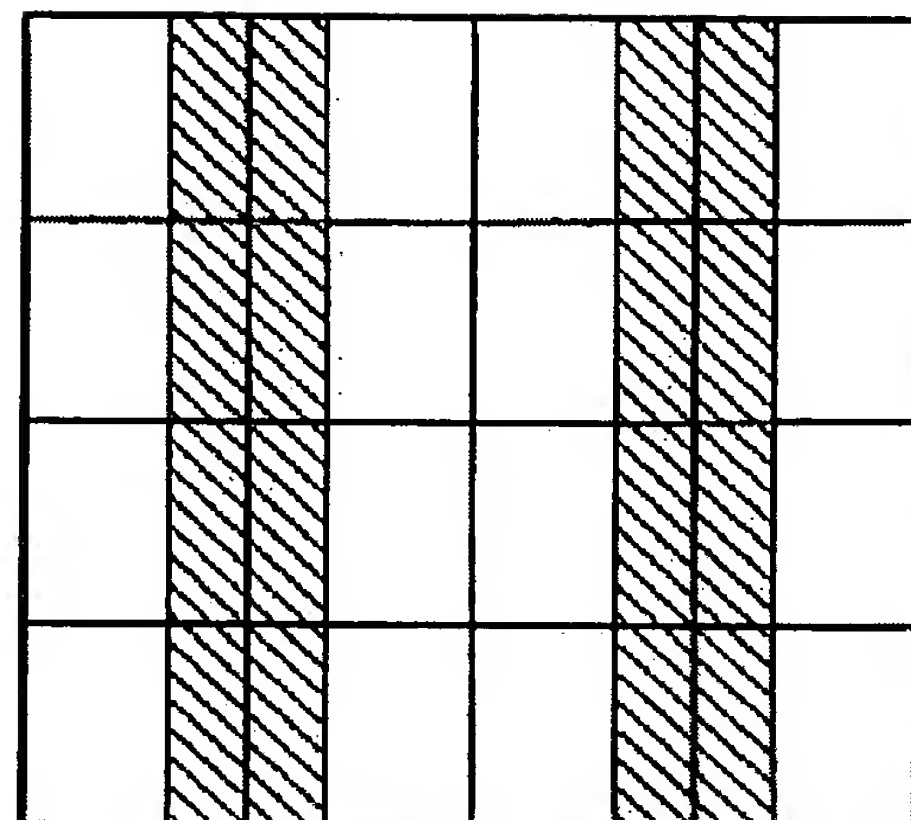
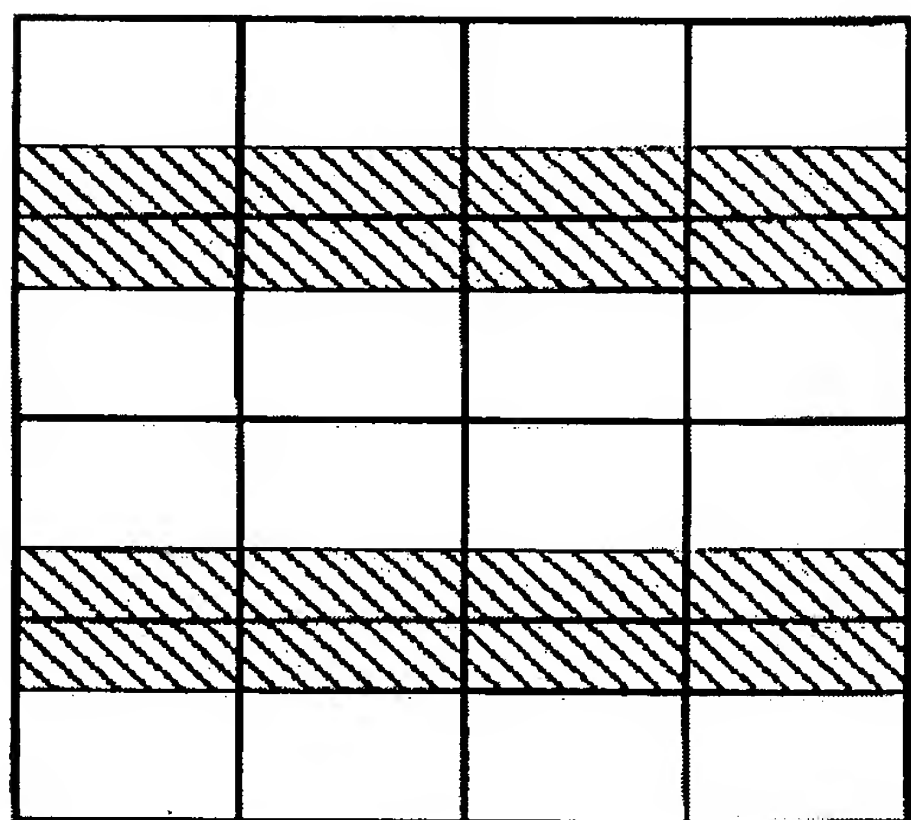


FIG. 8f



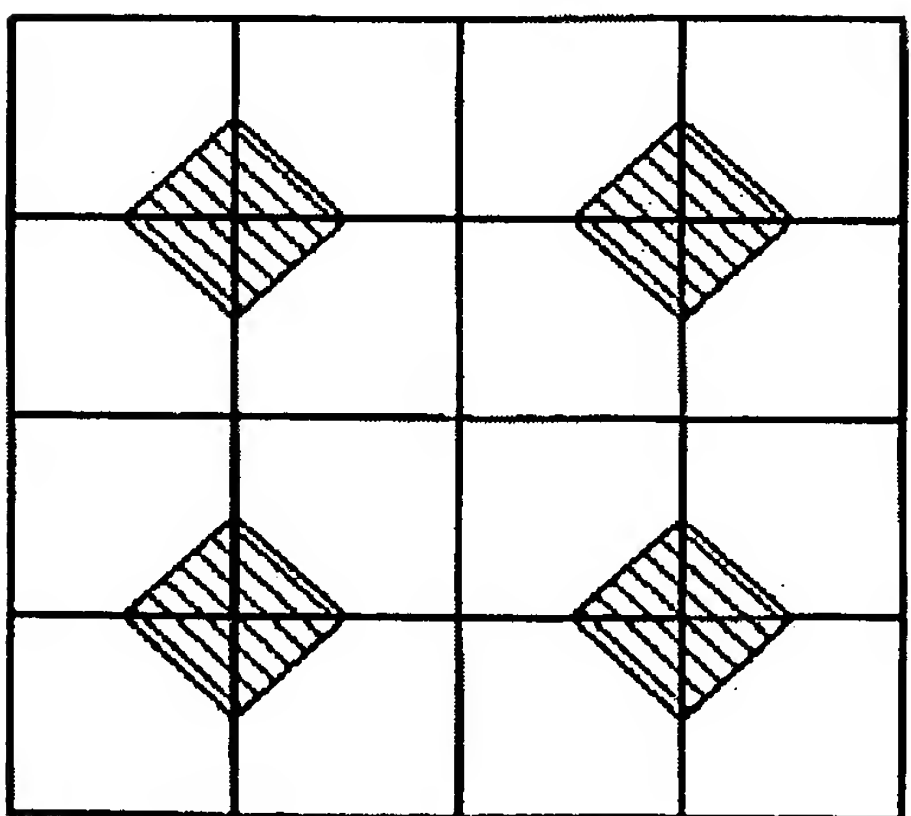
HORIZONTAL LINE

FIG.8i



VERTICAL LINE

FIG.8h



SQUARE (NOT ROTATED)

FIG.8g